

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TH1647 05 (US)

APPLICATION NUMBER

LIST OF INFORMATION PROVIDED  
BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
C. L. Edwards et al.

FILING DATE

GROUP ART UNIT

## REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
PAB	AA	3,676,523	7/11/72	Mason	260	683.15D	
	AB	3,686,351	8/22/72	Mason	260	683.15D	
	AC	3,737,475	6/5/73	Mason	260	683.15D	
	AD	3,825,615	7/23/74	Lutz	260	683.15D	
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D	
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8	
	AG	3,702,886	11/14/72	Argauer et al.	423	328	
	AH	3,709,979	1/9/73	Chu	423	328	
PAB	AI	3,832,449	8/27/74	Rubin et al.			

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
PAB	AL	WO 94/05761	3/17/94	World	C11D	3/10		
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
	AN	WO 99/42553	8/26/99	World	C11D	3/43		
PAB	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

PAB	AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New York, NY, USA) 1988 (ISBN 0-89573-399-0)					
	AS	K. Shinoda, "Principles of Solution and Solubility," translation in collaboration with Paul Becher, published by Marcel Dekker, Inc. 1978, pp. 292-304					
PAB	AT	Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Detergents by Two-Phase Titration," <u>Tensile</u> 4, 1967, pp. 292-304					

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11.17.09

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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date If Appropriate
8/12	BA	4,482,531	11/13/84	Kuehl	423	329	
	BB	3,950,496	4/13/76	Ciric	423	328	
	BC	3,972,983	8/3/76	Ciric	423	328	
	BD	4,046,859	9/6/77	Plank et al.	423	328	
	BE	4,247,416	1/27/81	Doherty et al.	252	428	
	BF	4,086,186	4/25/78	Rubin et al.	252	430	
	BG	4,046,859	9/6/77	Plank et al.	423	328	
	BH	4,287,166	9/1/81	Dwyer et al.	423	325	
PMZ	BI	4,247,728	1/27/81	Rubin et al.	585	467	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
PMZ	BL	06073045	3/15/94	Japan	C07D	273/08	X	
	BM	03261779	11/21/91	Japan	C07D	309/24	X	
	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	X	
PMZ	BO	100 20 899 A1	10/25/01	Germany	C07D	493/04	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

8/12	BR	B. E. Gordon, H. Roddewig and W. T. Shebs, "A Double Label Radiotracer Approach to Detergency Studies," Journal of American Oil Chemists' Society, Vol. 44, No. 5 (1967) pp. 289-294
	BS	W. T. Shebs and B. E. Gordon, "Improvements in Detergency Precision With Radioactive Soil," Journal of American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380
8/12	BT	W. T. Shebs, "Radioisotope Techniques in Detergency," Chapter 3, <u>Detergency Theory and Technology</u> , Marcel Dekker, Inc., New York (1987) pp. 125-191

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U. 17.04

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	CA	4,495,303	1/22/85	Kuehl	502	62	
	CB	4,397,827	8/9/83	Chu	423	326	
	CC	4,640,829	2/3/87	Rubin	423	328	
	CD	4,568,654	2/4/86	Valyocsik	502	62	
	CE	4,698,217	10/6/87	Valyocsik	423	328C	
	CF	4,647,442	3/3/87	Derouane et al.	423	306	
	CG	4,619,818	10/28/86	Derogane et al.	423	306	
	CH	4,954,325	9/4/90	Rubin et al.	423	328	
	CI	5,236,575	8/17/93	Bennett et al.	208	46	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation Yes N	
	CL							
	CM							
	CN							
	CO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	CR	Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888
	CS	Birgit Bartels et al., "A Selectivity of Activated Ketal Reduction With Borane Dimethyl Sulfide," JOURNAL OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765
	CT	T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearing Electron-Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52, 1987, pp. 1958-1764

EXAMINER	DATE CONSIDERED 11.17.04
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## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
PAZ	DA	3,308,069	3/7/67	Wadlinger et al.	252	455	
	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120	
	DC	3,058,805	10/16/62	Weber	23	113	
	DD	3,130,007	4/21/64	Breck	23	113	
	DE	3,996,337	12/7/76	Stabenow et al.	423	328	
	DF	4,440,871	4/3/84	Lok et al.	502	214	
	DG	5,059,567	10/22/91	Linsten et al.	502	64	
	DH	3,462,525	8/19/69	Levinsky	424	56	
PAA	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	DL							
	DM							
	DN							
	DO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

PAZ	DR	F. Wang et al., Synlett, (1998) pp. 245-245
	DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248
PAA	DT	International Search Report of 5 July 2002

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	<b>APPLICANT</b> C. L. Edwards et al.	
	<b>FILING DATE</b>	<b>GROUP ART UNIT</b>

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
<i>PR</i>	EA	3,420,875	1/7/69	Di Salvo et al.	260	513	
	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138	
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327	
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327	
	EE	5,057,627	10/15/91	Edwards	568	618	
	EF	6,087,311	7/11/00	Van Dijk	510	294	
	EG	6,083,893	7/4/00	Zint et al.	510	221	
	EH	6,159,920	12/12/00	Ridyard	510	324	
<i>MS</i>	EI	6,153,574	11/28/00	Janssen	510	224	

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	EL						
	EM						
	EN						
	EO						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
ER	Anionic Surfactants, Volume 7, Part I, edited by Warner M. Linfield, 1976 by Marcel Dekker, Inc.
ES	
ET	

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
FA		2,778,855	1/22/57	Shokal et al.	260	613	
FB		4,503,275	3/5/85	Harris et al.	568	866	
FC		4,317,938	3/2/82	Lutz	568	619	
FD		4,721,816	1/26/88	Edwards	568	618	
FE		4,721,817	1/26/88	Edwards	518	618	
FF		2,808,442	10/1/57	Smith et al.	260	611	
FG		5,912,408	6/15/99	Trinh et al.	8	142	
FH		4,544,512	10/1985	Hozumi et al.	558	169	
FI		Ser. No. 10/025,080	12/19/01	Edwards et al.			

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	FL							
	FM							
	FN							
	FO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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	FS	
	FT	

EXAMINER

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11.12.04

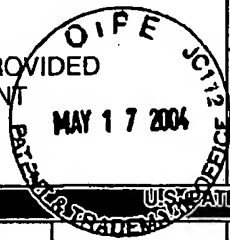
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TH1647 06 (US)APPLICATION NUMBER  
10/679,174LIST OF INFORMATION PROVIDED  
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APPLICANT  
C. L. Edwards et al.FILING DATE  
October 3, 2003GROUP ART UNIT  
1621

REFERENCE DESIGNATION							
Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>PAF</i>	AA	3,875,202	4/1/75	Steckler	260	458	
	AB	4,814,514	3/21/89	Yokota et al.	568	608	
<i>PNR</i>	AC	4,885,379	12/5/89	Abend	558	34	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>PAF</i>	AL	JP 10237497	9/8/98	Japan (English Abstract)	C11D	7/54		X
<i>Duplicate</i>	AM	JP 03261779	11/21/91	Japan (English Abstract)	C07D	309/24		X
<i>PAF</i>	AN	JP 06073045	3/15/94	Japan (English Abstract)	C07D	323/00		X
	AO							

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